

V-Form Fixed Panel Air Filter



Applications

The V-Form filter is a fixed panel dry arrestance type unit suitable for use in most air-conditioning and ventilation systems.

These include packaged air conditioners for office and computer room applications and light industrial applications.

V-Form mounting frames and clips facilitate quick removal and replacement at service intervals. For larger air volumes, V-Form filters can be made up into banks simply by bolting the holding frames together. V-Forms can be manufactured within a broad range of standard and non-standard sizes to suit your specific requirements.

The V-Form filter consists of two basic parts - the mounting frame and the filter cell. The mounting frame has provision for mounting in banks and incorporates clips. The frame is constructed of galvabond steel and is fitted with a sealing strip to avoid air leakage when the filter cell is in place.

The filter cell comprises a galvabond or aluminium frame, containing the filter media held in place between two support frames. The filter media is manufactured from graded synthetic fibres laid up in graduated layers, bonded and subsequently baked.

Standard Specification

Air filters shall be Email Air Handling V50 (or V100) or approved equal, surface area (see table), fitted with synthetic fibre filtering material. At rated capacity, average efficiency by AS1324.2 test procedure shall not be less than (see table)%. The filter shall withstand a minimum increase of 125Pa above initial resistance. The mounting frame shall be galvabond steel (aluminium optional) to resist corrosion.



Summary of test results

Tested samples: 1. V-Form 610 x 610 x 50mm DGH20 media 2. V-Form 610 x 610 x 50mm WMK10 media.

Tested to AS1324.2.4-5 - 1996: Air Filter Performance

	V-Form H	V-Form K
Test Report Reference	RALC00325	RALC00326
Air Flow	944 L/s	640 L/s
Initial Resistance	85 Pa	40 Pa
Initial Efficiency No.1 Dust	20%	17%
Average Efficiency No.1 Dust	33.60%	26.18%
Average Arrestance No.4 Dust	92.98%	83%
Dust Holding Capacity	295g	309g
Dust Holding Capacity per unit of Face Area	793g /sqm	830g /sqm

This test was conducted in a laboratory accredited by the National Association of Testing Authorities, Australia. Laboratory accreditation number 13213.

For more information on Filter testing or to request a test report contact your nearest AES Environmental branch.

WIDTH	PART NO.	MEDIA SIZE RANGE	MEDIA TYPE	RATING AT 1.8m/s
50	MFVWMK50-009	0.00 - 0.09 m ²	K	G3
	MFVWMK50-016	0.09 - 0.16 m ²	K	G3
	MFVWMK50-025	0.16 - 0.25 m ²	K	G3
	MFVWMK50-036	0.25 - 0.36 m ²	K	G3
	MFVWMK50-049	0.36 - 0.49 m ²	K	G3
	MFVDGH50-009	0.00 - 0.09 m ²	H	G4
	MFVDGH50-016	0.09 - 0.16 m ²	H	G4
	MFVDGH50-025	0.16 - 0.25 m ²	H	G4
	MFVDGH50-036	0.25 - 0.36 m ²	H	G4
	MFVDGH50-049	0.36 - 0.49 m ²	H	G4
100	MFVWMK100-009	0.00 - 0.09 m ²	K	G3
	MFVWMK100-016	0.09 - 0.16 m ²	K	G3
	MFVWMK100-025	0.16 - 0.25 m ²	K	G3
	MFVWMK100-036	0.25 - 0.36 m ²	K	G3
	MFVWMK100-049	0.36 - 0.49 m ²	K	G3
	MFVDGH100-009	0.00 - 0.09 m ²	H	G4
	MFVDGH100-016	0.09 - 0.16 m ²	H	G4
	MFVDGH100-025	0.16 - 0.25 m ²	H	G4
	MFVDGH100-036	0.25 - 0.36 m ²	H	G4
	MFVDGH100-049	0.36 - 0.49 m ²	H	G4

How to order

1. Obtain media range requirements/filter sizes to suit your application i.e. L x W = m²
2. Refer to the table for nearest media range.
3. To order, quote part number from table and required filter face dimensions in mm.

Note:

Maximum length for a single side on V-Form filters should not exceed 800mm.

Minimum recommended length is 254mm.

Mounting frames and hardware to suit V-Form Filters are available on request.

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In keeping with our policy of continuing product improvement, we reserve the right to alter specifications without notice.

